## CLAIMS

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3 A tool for circulating fluid in a well bore, the tool comprising a tubular assembly having a through 4 passage between an inlet and a first outlet, the 5 inlet and first outlet being adapted for connection б 7 in a work string, a second outlet extending generally transversely of the tubular assembly; an obturating 8 member moveable between a first position closing the 9 second outlet and a second position permitting fluid 10 11 flow through the second outlet, the obturating member 12 including restraining means to actively retain the 13 obturating member independently in the first and the second positions; an engagement mechanism actuable 14 15 between an engaged configuration, in which the 16 obturating member is locked in one of the first or second positions; and a disengaged configuration in 17 18 which the obturating member can move to the other of the first and second positions; a fluid pressure 19 actuation surface coupled to the engagement mechanism 21 and biased by a spring located between the tubular 22 assembly and the engagement mechanism; wherein 23 variation of fluid pressure on the actuation surface. 24 controls actuation of the engagement mechanism and 25 stroking the tool in the disengaged configuration 26 moves the obturating member.

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28 2. A tool as claimed in Claim 1 wherein the obturating
29 member comprises a sleeve axially slidable within the
30 tubular assembly.

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32 3. A tool as claimed in Claim 1 or Claim 2 wherein the restraining means is a collet.

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2	4.	A tool as claimed in Claim 3 wherein the collet is
3		retainable in a plurality of recesses on the tubular
4		assembly.
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6	5.	A tool as claimed in any one of the previous claims
7		wherein the fluid pressure actuation surface is
8		located on an actuator sleeve axially slidable within
9		the tubular assembly.
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11	6.	A tool as claimed in Claim 5 wherein a portion of the
12		actuator sleeve is located across the collet.
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14	7.	A tool as claimed in any one of the previous claims
15		wherein the engagement mechanism comprises mutually
16		engageable formations on each of the actuator sleeve
17	•	and the tubular assembly.
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19	8.	A tool as claimed in Claim 7 wherein the formations
20	•	comprise a pin and a groove.
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22	9.	A tool as claimed in Claim 8 wherein the groove is
23		continuous so that the pin can travel in a continuous
24		cycle around the groove.
25	·	
26	10.	A tool as claimed in Claim 9 wherein the groove
. 27		comprises a plurality of apexes and bases such that
28		the pin moves longitudinally to the tubular assembly,
29		for at least a portion of the cycle.
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31.	11.	A tool as claimed in any one of the previous claims
32		wherein the second outlet comprises a plurality of

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ports in the tubular assembly which communicate with the inlet.

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12. A tool as claimed in Claim 11 wherein the ports are distributed circumferentially around the outer surface of the tubular assembly.

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9 wherein the cross-sectional area of the first outlet is greater than the cross-sectional area of the second outlet.

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14. A method for circulating fluid in a well bore, the method comprising the steps:

- (a) inserting a work string into the well bore, the work string having a fluid inlet, a first fluid outlet and a second fluid outlet, an obturating member which is moveable between a first and second position to respectively close and open the second fluid outlet, and an engagement mechanism which when engaged locks the obturating member in one of the first or second positions;
  - (b) varying the fluid pressure through the work string to move the engagement mechanism between locked and unlocked configurations; and
- (c) stroking the work string to move the obturating member between the first and second positions.

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15. A method as claimed in Claim 14 wherein varying the fluid pressure through the work string is achieved by pumping fluid through the work string.

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16. A method as claimed in Claim 15 wherein the method 1 includes the step of running the work string in a 2 closed and locked configuration with the pumps turned .3 off. 4 · 5 6 17. A method as claimed in Claim 15 or Claim 16 wherein the method includes the step of drilling with the 7 work string in a closed and locked configuration and 8 in compression while pumping fluid. 9 10 18. A method as claimed in Claims 15 to 17 wherein the 11 12 method includes the step of back reaming with the work string in a closed and unlocked configuration 13 and in tension while pumping fluid. 14 15 16 19. A method as claimed in Claims 15 to 18 wherein the 17 method includes the step of opening the second outlet 18 with the work string in tension with the pumps off. 19 20 20. A method as claimed in Claims 15 to 19 wherein the method includes the step of stroking the work string 21 22 in a locked and open configuration while pumping 23 fluid. 24 21. A method as claimed in Claims 15 to 20 wherein the 25 26 method includes the step of stroking the work string 27 in a locked and open configuration with the pumps 28 off. · 29 30 22. A method as claimed in any one of Claims 14 to 21 31 wherein the method includes operating the work string 32 in a cyclic manner through the following configurations: 33

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1 (a)	locked	closed;
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- 2 (b) unlocked closed;
- 3 (c) unlocked open;
- 4 (d) locked open;
- 5 (e) unlocked open; and
- 6 (f) unlocked closed.